

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	153	717/113.ccls.	USPAT	OR	OFF	2007/06/06 14:20
L2	134545	display\$3 same (edit\$3 monitor\$3)	USPAT	OR	OFF	2007/06/06 14:21
L3	1683	(program\$1 code\$1 ) with (function adj block\$1)	USPAT	OR	OFF	2007/06/06 14:22
L4	2054806	(definition\$1 behavior\$1 properti\$2 input\$1 output\$1 )	USPAT	OR	OFF	2007/06/06 14:24
L5	372287	analyz\$3	USPAT	OR	OFF	2007/06/06 14:24
L6	848043	instance\$1	USPAT	OR	OFF	2007/06/06 14:25
L7	88201	l4 same l5	USPAT	OR	OFF	2007/06/06 14:26
L8	2819	l7 same l6	USPAT	OR	OFF	2007/06/06 14:26
L9	50	l2 same l3	USPAT	OR	OFF	2007/06/06 14:42
L10	0	l8 same l1	USPAT	OR	OFF	2007/06/06 14:26
L11	5	l8 and l1	USPAT	OR	OFF	2007/06/06 14:26
L12	815171	(analyz\$3 monitor\$3 )	USPAT	OR	OFF	2007/06/06 14:50
L13	165	(function adj block ) with instance\$1	USPAT	OR	OFF	2007/06/06 14:44
L14	8	l13 with (definition\$1 attribute\$1 behavior\$1)	USPAT	OR	OFF	2007/06/06 14:45
L15	210	(function adj block\$1 ) with instance\$1	USPAT	OR	OFF	2007/06/06 14:44
L16	15	l15 with (definition\$1 attribute\$1 behavior\$1)	USPAT	OR	OFF	2007/06/06 14:49
L17	252	(graphical\$4 visual\$2)with (function\$1 adj block\$1)	USPAT	OR	OFF	2007/06/06 14:52
L18	1054201	instan\$3 instantiat\$3	USPAT	OR	OFF	2007/06/06 14:52
L19	1184772	definition\$2 propert\$3 behavior\$1	USPAT	OR	OFF	2007/06/06 14:53
L20	83645	l18 same l19	USPAT	OR	OFF	2007/06/06 14:53
L21	16066	function\$1 adj block\$1	USPAT	OR	OFF	2007/06/06 14:54
L22	735	l21 and l20	USPAT	OR	OFF	2007/06/06 14:54
L23	63	l17 and l22	USPAT	OR	OFF	2007/06/06 15:05
L24	9	(analyz\$3 monitor\$3) near (program\$4 adj logic\$2 adj control\$3)	USPAT	OR	OFF	2007/06/06 15:19
L25	36	(analyz\$3 monitor\$3) near34 ((program\$4 adj logic\$2 adj control\$3) PLC41)	USPAT	OR	OFF	2007/06/06 15:16
L26	18	(function\$1 adj block\$1) same ((instan\$3 instantiat\$3) with (difinition\$1 behavior\$1 attribute\$1 propert\$3))	USPAT	OR	OFF	2007/06/06 15:22

## EAST Search History

L27	19	((function\$1 adj block\$1)FBs) same ((instan\$3 instantiat\$3) with (difinition\$1 behavior\$1 attribute\$1 proptert\$3))	USPAT	OR	OFF	2007/06/06 15:19
L28	20	(analyz\$3 monitor\$3) near (program\$4 adj logic\$2 adj control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 15:20
L29	32	(function\$1 adj block\$1) same ((instan\$3 instantiat\$3) with (difinition\$1 behavior\$1 attribute\$1 proptert\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 15:24
L30	0	l29 and (717/105,113.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 15:24
S1	287	717/105.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 16:32
S2	305	717/113.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 16:33
S3	21579	function adj block	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 16:33
S4	192	function same block\$1 same (definition) same (instance )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 16:36

## EAST Search History

S5	0	S4 and 717/105,113.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 16:35
S6	532	717/105,113.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 17:54
S7	0	S4 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 16:36
S8	8	("5287447"   "5455599"   "5710896"   "6085120"   "6106569"   "6108661"   "6216152"   "6438742").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/04 16:54
S9	2	("6671800").URPN.	USPAT	OR	OFF	2007/06/04 17:15
S10	1520002	function	USPAT	OR	OFF	2007/06/04 17:16
S11	1228444	block\$1	USPAT	OR	OFF	2007/06/04 17:16
S12	208501	definition	USPAT	OR	OFF	2007/06/04 17:16
S13	847209	instance\$1	USPAT	OR	OFF	2007/06/04 17:16
S14	687309	S10 and S11	USPAT	OR	OFF	2007/06/04 17:16
S15	13238	S10 adj S11	USPAT	OR	OFF	2007/06/04 17:17
S16	150	S12 adj S13	USPAT	OR	OFF	2007/06/04 17:17
S17	7654	S12 same S13	USPAT	OR	OFF	2007/06/04 17:18
S18	30	S15 same S17	USPAT	OR	OFF	2007/06/04 17:18
S19	36	("4025763"   "4047003"   "4302820"   "4517637"   "4602343"   "4672530"   "5122948"   "5129087"   "5134574"   "5146401"   "5168441"   "5247450"   "5265005"   "5307346"   "5311451"   "5365423"   "5371895"   "5412643"   "5432711"   "5442639"   "5444851"   "5475856"   "5485400"   "5486998"   "5493534"   "5497316"   "5504902"   "5513095"   "5530643"   "5549137"   "5550980"   "5566320"   "5623592"   "5682476"   "5793963"   "5796602").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/04 17:34

## EAST Search History

S20	0	S6 and (function adj block adj definition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 17:55
S21	434	S6 and function	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 17:55
S22	344	S21 and block	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 17:55
S23	195	S22 and definition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 17:56
S24	149	S23 and instance\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/04 17:56
S25	566	ladder adj program\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:02
S26	48	S25 and (function adj block\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:02
S27	7	S26 and (instance\$1 same definition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:03

## EAST Search History

S28	6425	program\$5 adj control\$4 adj system\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:14
S29	147	S28 and (function adj block\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:14
S30	2	S29 and (instance\$1 same definition\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:16
S31	1645433	controller\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:16
S32	410	S31 and S25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:18
S33	26675	function adj block\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:17
S34	26157	instance\$1 same definition\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:17
S35	469	S33 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:17

## EAST Search History

S36	7	S32 and S35	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:18
S37	1	S32 and 717/113.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:19
S38	305	717/113.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 13:50
S39	3295	analyz\$3 adj program\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:41
S40	16622	ladder same (diagram\$1 structure\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:43
S41	9	S39 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:50
S42	152021	PLC	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:50
S43	38	S42 and 717/113.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 12:51

## EAST Search History

S44	242	717/110.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 13:57
S45	857239	analyz\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:00
S46	714	S45 same S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:00
S47	2	S34 same S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:02
S48	29	S34 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:08
S49	68926	edit\$3 same display\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:09
S50	566	ladder adj program\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:09
S51	125	S49 and S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:52

## EAST Search History

S52	26675	function adj block\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:53
S53	68926	display\$3 same edit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:54
S54	148	S52 same S53	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:55
S55	62	S54 and definition\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 14:56
S56	37	S55 and instance\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:11
S57	23	block near (definition same instance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:03
S58	2	(display\$3 near edit\$3 ) near34 (program) same (PLC)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:13
S59	30	(display\$3 near edit\$3 ) and (program) same (PLC)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:13



## EAST Search History

S60	26675	function adj block\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:25
S61	2033764	(definition\$1 paramter\$1 variable\$1 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:26
S62	1888025	instance\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:27
S63	68926	display\$3 same edit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:27
S64	1788791	program\$1 software\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:28
S65	113	S60 same (S61 same S62)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:28
S66	27	S60 near34 (S61 same S62)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:29
S67	48130	S63 and S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:29

## EAST Search History

S68	19073	S63 same S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:31
S69	20	S68 and S65	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 15:31
S70	5	("5119318"   "5369570"   "5841656"   "5956728"   "6268853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:33
S71	5	("5119318"   "5369570"   "5841656"   "5956728"   "6268853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:34
S72	5	("5119318"   "5369570"   "5841656"   "5956728"   "6268853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:39
S73	24	ladder adj logic adj editor	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:51
S74	1067220	monitor\$3 PLC\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:53
S75	166	monitor\$3 adj PLC\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:52
S76	3897	monitor\$3 same PLC\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:53
S77	1	S76 and 717/113.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:56
S78	31	S76 and "717"/.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/05 15:56
S79	71527	graphic\$4 with (program\$4 or code\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 16:29

## EAST Search History

S80	62975	(graphical\$4 visual\$2) with (node\$1 component\$1 module\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 16:30
S81	84922	object\$1 with class\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 16:30
S82	128059	(instan\$3 instantiat\$3) with object\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 16:31
S83	4867	S79 same S80	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 16:32
S84	11957	S81 same S82	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 16:32
S85	56	S83 same S84	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/05 16:32
S86	256	717/105,113.CCLS.	USPAT	OR	OFF	2007/06/06 09:43
S87	125	717/105.ccls.	USPAT	OR	OFF	2007/06/06 09:42
S88	153	717/113.ccls.	USPAT	OR	OFF	2007/06/06 09:42
S89	153	717/113.ccls.	USPAT	OR	OFF	2007/06/06 09:43
S90	305	717/113.ccls.	US-PGPUB; USPAT	OR	OFF	2007/06/06 09:43
S91	2	S86 and (Function adj block\$1) same (graphic\$3 with (program\$1 code\$1))	USPAT	OR	OFF	2007/06/06 09:46
S92	2	S90 and (Function adj block\$1) same (graphic\$3 with (program\$1 code\$1))	USPAT	OR	OFF	2007/06/06 09:56

## EAST Search History

S93	30907	graphic\$4 with (program\$4 code\$1)	USPAT	OR	OFF	2007/06/06 10:08
S94	26867	(graphical\$4 visual\$2) with (node\$ component\$1 module\$1)	USPAT	OR	OFF	2007/06/06 09:58
S95	21913	(object\$1 with class\$2)	USPAT	OR	OFF	2007/06/06 09:58
S96	57472	(insta\$3 instantiat\$3) with object\$1	USPAT	OR	OFF	2007/06/06 09:58
S97	4721	S93 and S94	USPAT	OR	OFF	2007/06/06 09:59
S98	6621	S95 and S96	USPAT	OR	OFF	2007/06/06 09:59
S99	705	S97 and S98	USPAT	OR	OFF	2007/06/06 09:59
S100	31	S99 and (717/105,113.CCLS.)	USPAT	OR	OFF	2007/06/06 14:01
S101	86	graphic\$4 with (program\$4 code\$1) with (function adj block\$1)	USPAT	OR	OFF	2007/06/06 10:08
S102	121	graphic\$4 with (program\$4 code\$1) same (function adj block\$1)	USPAT	OR	OFF	2007/06/06 10:09
S103	31007	graphic\$4 with (program\$4 code\$1 function adj block\$1)	USPAT	OR	OFF	2007/06/06 10:09
S104	4737	S103 and S94	USPAT	OR	OFF	2007/06/06 10:09
S105	709	S104 and S98	USPAT	OR	OFF	2007/06/06 10:10
S106	31	S105 and (717/105,113.CCLS.)	USPAT	OR	OFF	2007/06/06 10:13
S107	1	"5847953".pn.	USPAT	OR	OFF	2007/06/06 11:40
S108	1	"3493613".pn.	USPAT	OR	OFF	2007/06/06 11:42
S109	25856	Ishikawa	USPAT	OR	OFF	2007/06/06 11:43
S110	69	Ishikawa-HITOSHI.in.	USPAT	OR	OFF	2007/06/06 11:46
S111	0	HITOSHI-Ishikawa-.in.	USPAT	OR	OFF	2007/06/06 11:45
S112	0	HITOSHI-Ishikawa.in.	USPAT	OR	OFF	2007/06/06 11:46
S113	651	Ishikawa-HITOSHI.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:48

## EAST Search History

S11 4	0	S113 and (717/105,113.CCLS.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:47
S11 5	0	S113 and 717/CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:47
S11 6	0	S113 and "717"/.CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:47
S11 7	532	717/105,113.CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:53
S11 8	71527	graphic\$4 with (program\$4 code\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:50
S11 9	62975	(graphical\$4 visual\$2)with (node\$1 component\$1 module\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:51
S12 0	1828	object\$1 with class\$2 with block\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 12:03

## EAST Search History

S12 1	128059	(instan\$3 instantiat\$3 ) with object\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:53
S12 2	532	717/105,113.CCLS.	US-PGPUB; USPAT	OR	OFF	2007/06/06 11:54
S12 3	4471	S118 same S119	US-PGPUB; USPAT	OR	OFF	2007/06/06 11:54
S12 4	0	S121 same S122	US-PGPUB; USPAT	OR	OFF	2007/06/06 11:54
S12 5	449	S120 same S121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:54
S12 6	21	S123 and S125	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 11:54
S12 7	84922	object\$1 with class\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 12:03